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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water.
- Do not squeeze or touch CPU Cooler (Fan/Heatsink)
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.

1.2 PACKAGE CHECKLIST

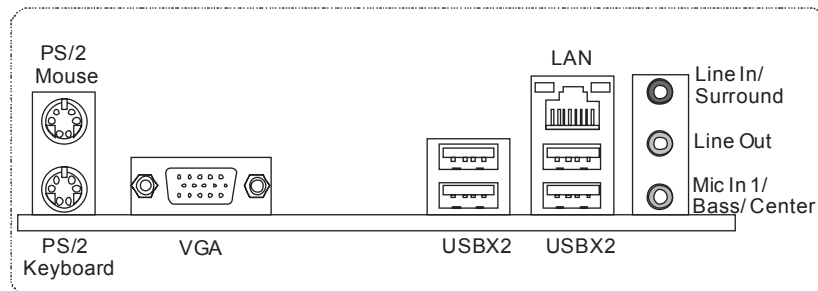
- ✚ Rear I/O Panel Shield X 1
- ✚ Fully Setup Driver CD X 1 (full version manual files inside)
- ✚ Serial ATA Cable X 2
- ✚ Quick Installation Guide X 1

1.3 MOTHERBOARD FEATURES

SPEC		
CPU	VIA C7-D 1.8G Processor	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
Chipset	VX900	
Graphics	Chrome9 HD	Max Shared Video Memory is 512MB Support DirectX 9.0 and Pixel Shader (SM2.0)
Super I/O	ITE 8728	Low Pin Count Interface Environment Control H/W Monitor Fan Speed Controller
Main Memory	DDR3 Slots x 2	Each DIMM supports 512MB/1GB/2GB/4GB DDR3 Max Memory Capacity 8GB Supports DDR3 800 / 1066 Single Channel Mode DDR3 memory module Registered DIMM and ECC DIMM is not supported
SATA	Integrated Serial ATA Controller	Data transfer rates up to 3.0 Gb/s. SATA Version 2.0 specification compliant.
LAN	Realtek RTL8103EL	10 / 100 Mb/s auto negotiation
Sound Codec	VIA VT1708S	5.1 channels audio out High-Definition Audio support
Slot	PCI slot x1 PCI Express Gen2 x 16 slot x1	Supports PCI expansion card Supports PCI-E x16 expansion card (x8-Lane only)
On Board Connector	SATA Connector x2 Front Panel Connector x1 Front Audio Connector x1 CPU Fan Header x1 System Fan Header x1	Each connector supports 1 SATA devices Supports front panel facilities Supports front panel audio function CPU Fan power supply System Fan Power supply

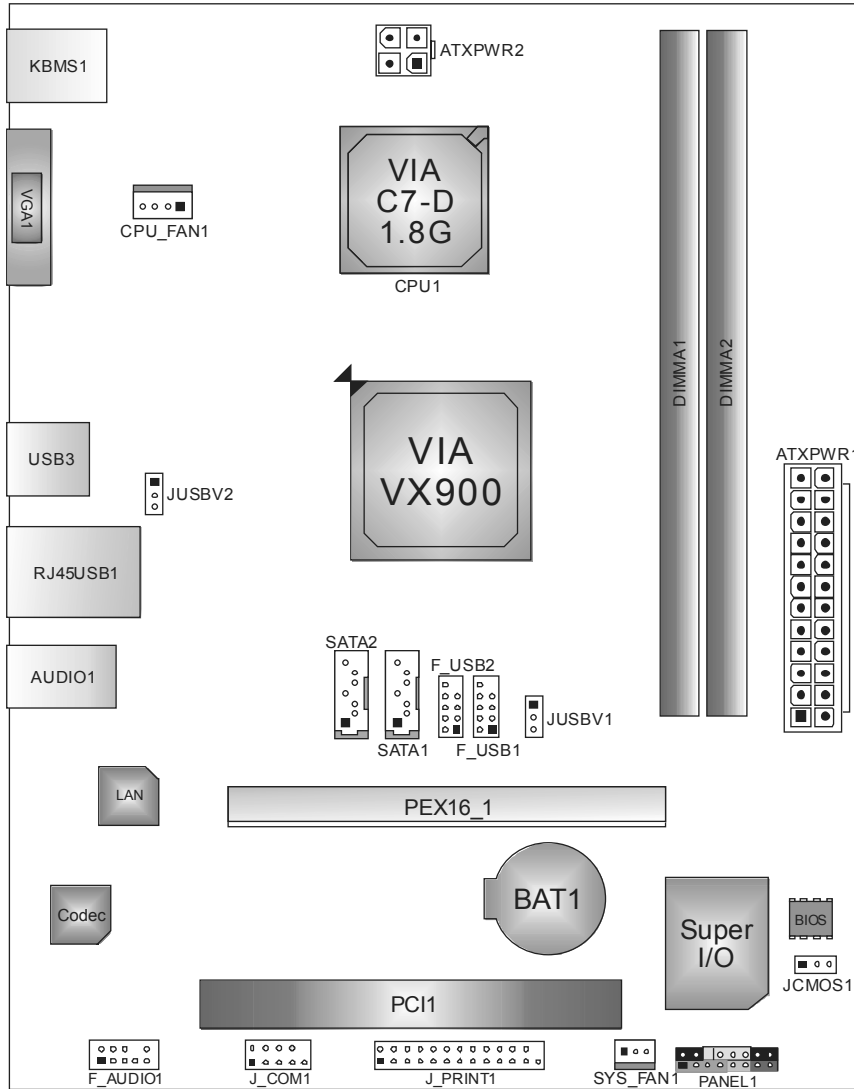
SPEC			
	Clear CMOS Header	x1	Restore CMOS data to factory default
	USB Connector	x2	Each connector supports 2 front panel USB ports
	Printer Port Connector	x1	Each connector supports 1 Printer port
	Serial Port Connector	x1	Connects to RS-232 Port
	Power Connector (24pin)	x1	Connects to Power supply
	Power Connector (4pin)	x1	Connects to Power supply
Real Panel I/O	PS/2 Keyboard	x1	Connects to PS/2 Keyboard
	PS/2 Mouse	x1	Connects to PS/2 Mouse
	VGA Port	x1	Connects to monitor
	LAN Port	x1	Connects to RJ-45 ethernet cable
	USB Port	x4	Connects to USB devices
	Audio Jack	x3	Provide Audio-In/Out and microphone connection
Board Size	170 (W) x 220 (L) mm		
OS Support	Windows XP / Vista / 7		Biostar reserves the right to add or remove support for any OS with or without notice.

1.4 REAR PANEL CONNECTORS



Since the audio chip supports High Definition Audio Specification, the function of each audio jack can be defined by software. The input / output function of each audio jack listed above represents the default setting. However, when connecting external microphone to the audio port, please use the Mic In (Pink) audio jack.

1.5 MOTHERBOARD LAYOUT



Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

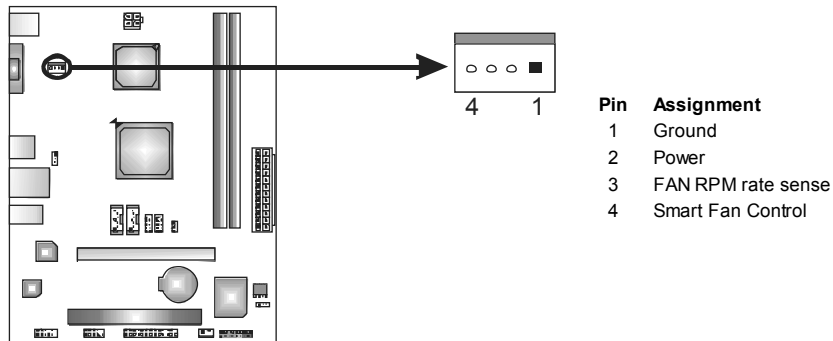
2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)

The motherboard includes an embedded VIA C7-D or Nano processor, and a heatsink has been installed to provide sufficient cooling.

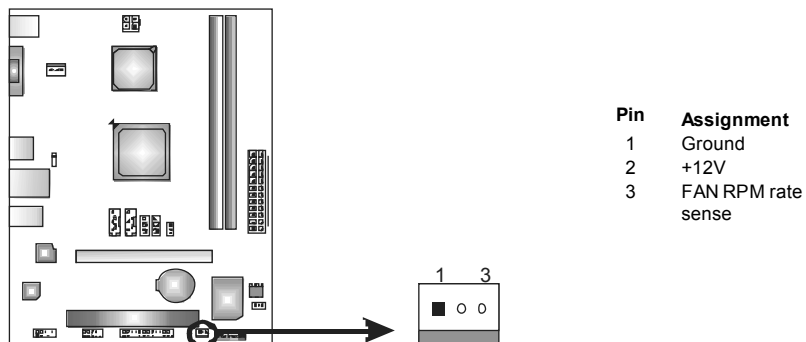
2.2 FAN HEADERS

These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



SYS_FAN1: System Fan Header

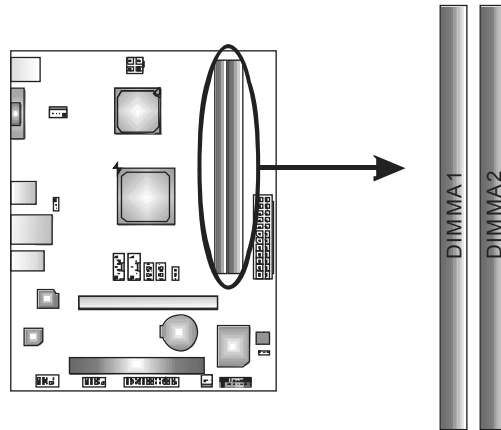


Note:

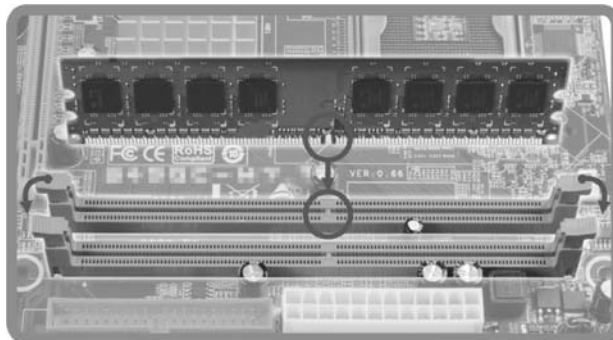
CPU_FAN1 supports 4-pin head connector; SYS_FAN1, 3-pin head one. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

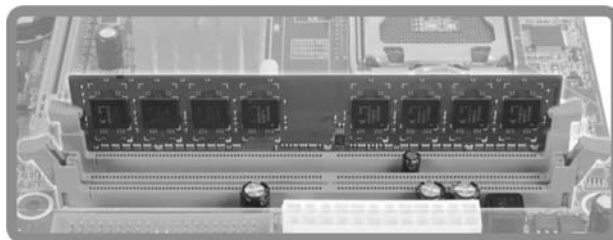
A. DDR3 Module



1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



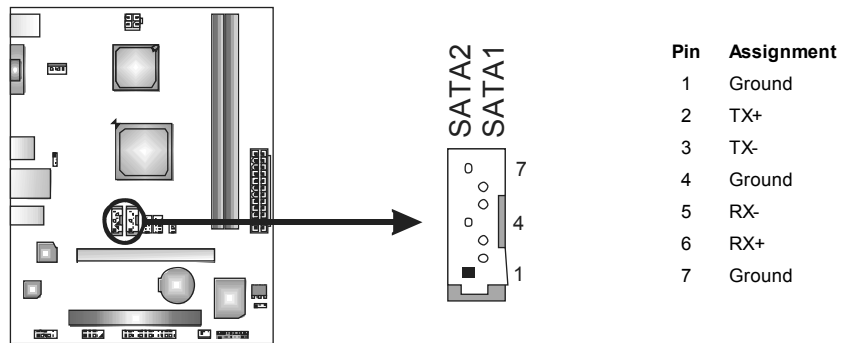
B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size
DIMMA1	512MB/1GB/2GB/4GB	Max is 8GB.
DIMMA2	512MB/1GB/2GB/4GB	

2.4 CONNECTORS AND SLOTS

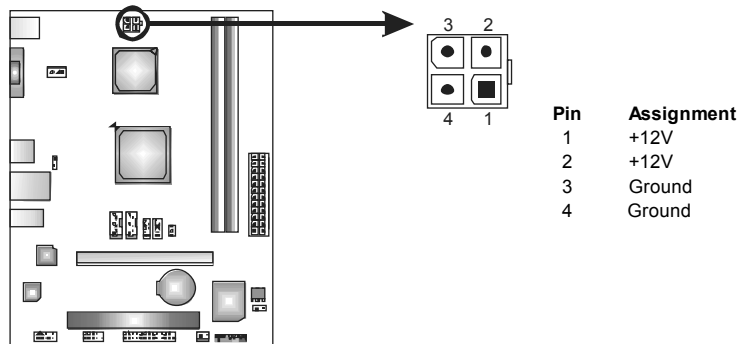
SATA1/SATA2: Serial ATA Connectors

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3Gb/s.



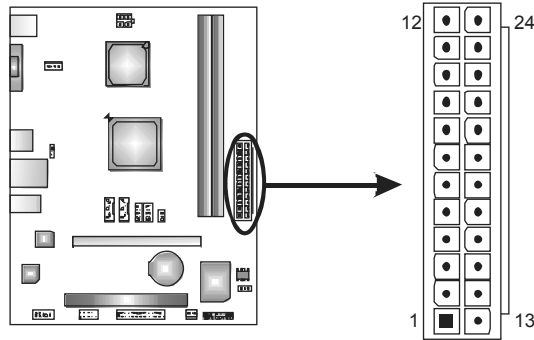
ATXPWR2: ATX Power Source Connector

This connector provides +12V to CPU power circuit. Please make sure this connector has been plugged in perfectly.



ATXPWR1: ATX Power Source Connector

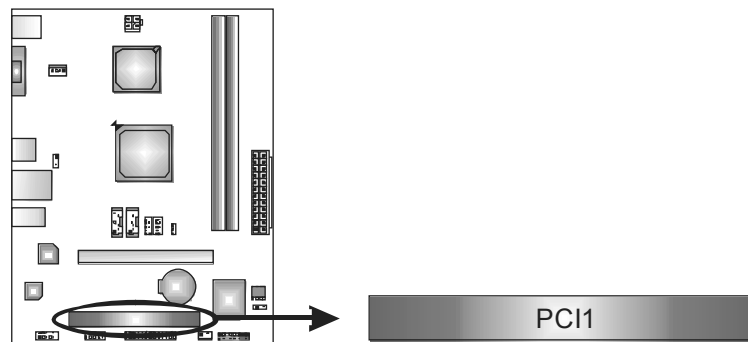
This connector allows user to connect 24-pin power connector on the ATX power supply.



Pin	Assignment	Pin	Assignment
13	+3.3V	1	+3.3V
14	-12V	2	+3.3V
15	Ground	3	Ground
16	PS_ON	4	+5V
17	Ground	5	Ground
18	Ground	6	+5V
19	Ground	7	Ground
20	NC	8	PW_OK
21	+5V	9	Standby Voltage+5V
22	+5V	10	+12V
23	+5V	11	+12V
24	Ground	12	+3.3V

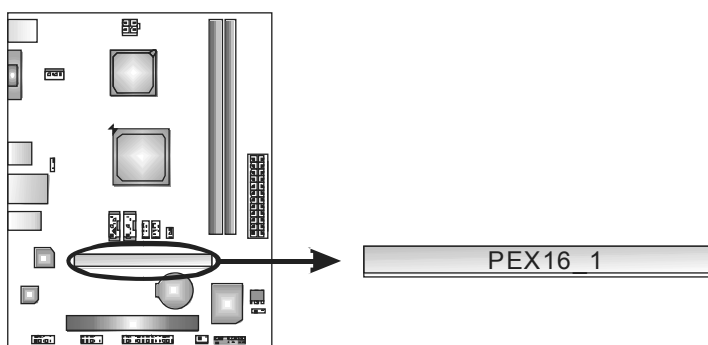
PCI1: Peripheral Component Interconnect Slot

The motherboard is equipped with 1 standard PCI slot. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



PEX16_1: PCI-Express x16 Slot

- PCI-Express 2.0 compliant (x8-Lane only).
- Maximum theoretical realized bandwidth of 4GB/s simultaneously per direction, for an aggregate of 8GB/s totally.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



Pin opened



Pin closed

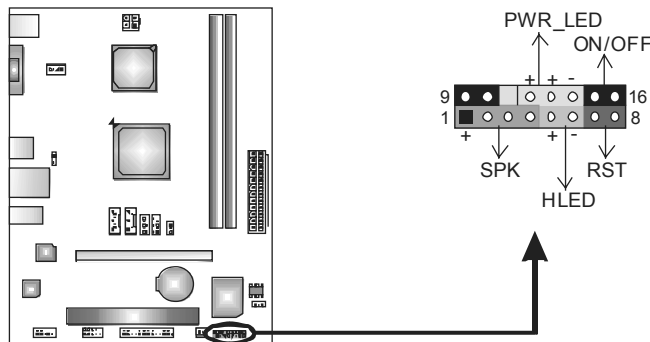


Pin1-2 closed

3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

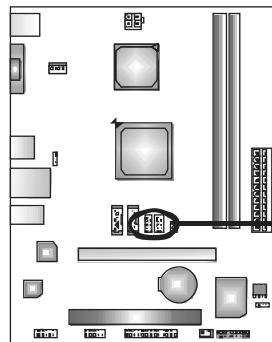
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connections. It allows user to connect the PC case's front panel switch functions.



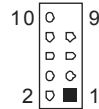
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V		9	N/A	N/A
2	N/A	Speaker Connector	10	N/A	N/A
3	N/A		11	N/A	N/A
4	Speaker	Hard drive LED	12	Power LED (+)	Power LED
5	HDD LED (+)		13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	

F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

This motherboard provides 2 USB 2.0 headers, providing user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



F_USB2 F_USB1



Pin	Assignment
1	+5V (fused)
2	+5V (fused)
3	USB-
4	USB-
5	USB+
6	USB+
7	Ground
8	Ground
9	Key
10	NC

JUSBV1/JUSBV2: Power Source Headers for USB Ports

Pin 1-2 Close:

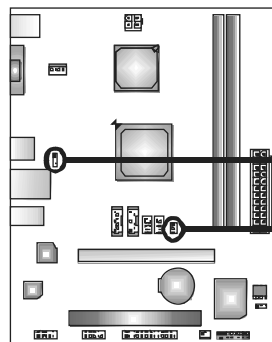
JUSBV1: +5V for USB ports at front panel (F_USB1/F_USB2).

JUSBV2: +5V for USB ports at USB3/RJ45USB1.

Pin 2-3 Close:

JUSBV1: +5V STB for USB ports at front panel (F_USB1/F_USB2).

JUSBV2: +5V STB for USB ports at USB3/RJ45USB1.



JUSBV2



JUSBV1



Pin 1-2 close



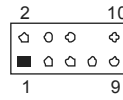
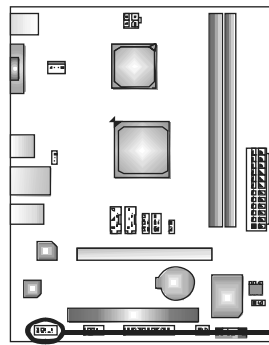
Pin 2-3 close

Note:

In order to support this function "Power-On system via USB device," user should place "JUSBV1/ JUSBV2" jumper cap on Pin 2-3 individually.

F_AUDIO1: Front Panel Audio Header

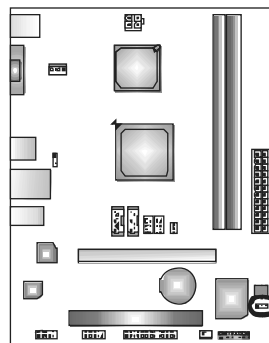
This header allows user to connect the front audio output cable with the PC front panel.



Pin	Assignment
1	Mic Left in
2	Ground
3	Mic Right in
4	GPIO
5	Right line in
6	Jack Sense
7	Front Sense
8	Key
9	Left line in
10	Jack Sense

JCMOS1: Clear CMOS Header

Placing the jumper on pin2-3 allows user to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.



Pin 1-2 Close:
Normal Operation (Default).



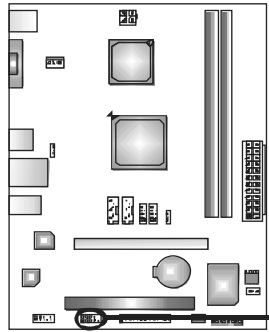
Pin 2-3 Close:
Clear CMOS data.

※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Load Optimal Defaults and save settings in CMOS.

J_COM1: Serial port Connector

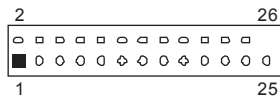
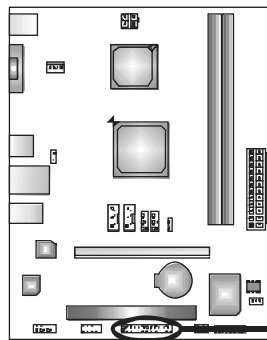
The motherboard has a Serial Port Connector for connecting RS-232 Port.



Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	NC

J_PRINT1: Printer Port Connector

This header allows you to connector printer on the PC.



Pin	Assignment	Pin	Assignment
1	-Strobe	14	Ground
2	-ALF	15	Data 6
3	Data 0	16	Ground
4	-Error	17	Data 7
5	Data 1	18	Ground
6	-Init	19	-ACK
7	Data 2	20	Ground
8	-Scltin	21	Busy
9	Data 3	22	Ground
10	Ground	23	PE
11	Data 4	24	Ground
12	Ground	25	SCLT
13	Data 5	26	Key

CHAPTER 4: USEFUL HELP

4.1 DRIVER INSTALLATION NOTE

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

Note:

If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file **SETUP.EXE** under your optical drive.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

Note:

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://www.adobe.com/products/acrobat/readstep2.html>

5.2 EXTRA INFORMATION

CPU Overheated

If the system shutdown automatically after power on system for minutes, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
(See "Close CMOS Header: JCMOS1" section)
2. Wait for seconds.
3. Power on the system again.

5.3 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"> 1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work 2. Indicator light on keyboard does not shine. 	<ol style="list-style-type: none"> 1. Make sure power cable is securely plugged in. (Both ATXPWR1 and ATXPWR2 power connectors are plugged in, perfectly.) 2. Replace cable. 3. Contact technical support.
System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from a hard disk drive, but can be booted from optical drive.	<ol style="list-style-type: none"> 1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk.	<ol style="list-style-type: none"> 1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message shows "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
System cannot boot after user installs a second hard drive.	<ol style="list-style-type: none"> 1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

Spezifikationen		
CPU	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
Chipsatz	VX900	
Grafik	Chrome9 HD	Max. 512MB gemeinsam benutzter Videospeicher
Super E/A	ITE 8728	Low Pin Count-Schnittstelle Umgebungskontrolle Hardware-Überwachung Lüfterdrehzahl-Controller
Arbeitsspeicher	DDR3 DIMM-Steckplätze x 2	Jeder DIMM unterstützt 512MB/ 1GB/2GB/4GB DDR3 Max. 8GB Arbeitsspeicher Unterstützt DDR3 800 / 1066 Ein-Kanal DDR3 Speichermodul registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
SATA	Integrierter Serial ATA-Controller	Datentransferrate bis zu 3Gb/s Konform mit der SATA-Spezifikation Version 2.0
LAN	Realtek RTL8103EL	10 / 100 Mb/s Auto-Negotiation
Audio-Codec	VIA VT1708S	5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI-Steckplatz x1 PCI Express Gen2 x16 Steckplatz x1	
Onboard-Anschluss	SATA-Anschluss x2 Fronttafelanschluss x1 Front-Audioanschluss x1 CPU-Lüfter-Sockel x1	Jeder Anschluss unterstützt 1 SATA-Laufwerk Unterstützt die Fronttafel-funktionen Unterstützt die Fronttafel-Audioanschlussfunktion CPU-Lüfterstromversorgungsanschluss

Spezifikationen			
	System-Lüfter-Sockel	x1	System-Lüfter-Stromversorgungsanschluss
	"CMOS löschen"-Sockel	x1	
	USB-Anschluss	x2	Jeder Anschluss unterstützt 2 Fronttafel-USB-Anschlüsse
	Druckeranschluss Anschluss	x1	Jeder Anschluss unterstützt 1 Druckeranschluss
	Serieller Anschluss	x1	
	Stromanschluss (24-polig)	x1	
	Stromanschluss (4-polig)	x1	
Rückseiten-E /A	PS/2-Tastatur	x1	
	PS/2-Maus	x1	
	VGA-Anschluss	x1	
	LAN-Anschluss	x1	
	USB-Anschluss	x4	
	Audioanschluss	x3	
Platinengröße	170 mm (B) X 220 mm (L)		
OS-Unterstützung	Windows XP / Vista / 7		Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRENCH

SPEC		
UC	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board d'exécution de bit de désactivation
Bus frontal	VIA V4 BUS 800MHz	
Chipset	VX900	
Graphiques	Chrome9 HD	Mémoire vidéo partagée maximale de 512 Mo
Super E/S	ITE 8728	Interface à faible compte de broches Initiatives de contrôle environnementales Moniteur de matériel Contrôleur de vitesse de ventilateur
Mémoire principale	Fentes DDR3 DIMM x 2	Chaque DIMM prend en charge des DDR3 de 512Mo/1Go/2Go/4Go Capacité mémoire maximale de 8 Go Prend en charge la DDR3 800 / 1066 Module de mémoire DDR3 à mode à simple voie Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
SATA	Contrôleur Serial ATA intégré :	Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0
LAN	Realtek RTL8103EL	10 / 100 Mb/s négociation automatique
Codec audio	VIA VT1708S	Sortie audio à 5.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI x1 Fente PCI Express Gen2 x16 x1	
Connecteur embarqué	Connecteur SATA x2 Connecteur du panneau avant x1	Chaque connecteur prend en charge 1 périphérique SATA Prend en charge les équipements du panneau avant

SPEC		
	Connecteur Audio du panneau avant x1	Prend en charge la fonction audio du panneau avant
	Embase de ventilateur UC x1	Alimentation électrique du ventilateur UC
	Embase de ventilateur système x1	Alimentation électrique du ventilateur système
	Embase d'effacement CMOS x1	
	Connecteur USB x2	Chaque connecteur prend en charge 2 ports USB de panneau avant
	Connecteur de Port d'imprimante x1	Chaque connector prend en charge 1 Port d'imprimante
	Port série x1	
	Connecteur d'alimentation (24 broches) x1	
	Connecteur d'alimentation (4 broches) x1	
E/S du panneau arrière	Clavier PS/2 x1	
	Souris PS/2 x1	
	Port VGA x1	
	Port LAN x1	
	Port USB x4	
	Fiche audio x3	
Dimensions de la carte	170mm (l) X 220 mm (H)	
Support SE	Windows XP / Vista / 7	Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

SPECIFICA		
CPU	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
Chipset	VX900	
Grafica	Chrome9 HD	La memoria video condivisa massima è di 512MB
Super I/O	ITE 8728	Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Controller velocità ventolina
Memoria principale	Alloggi DIMM DDR3 x 2	Ciascun DIMM supporta DDR3 512MB/1GB/2GB/4GB Capacità massima della memoria 8GB Supporto di DDR3 800 / 1066 Modulo di memoria DDR3 a canale singolo DIMM registrati e DIMM ECC non sono supportati
SATA	Controller Serial ATA integrato	Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.
LAN	Realtek RTL8103EL	Negoziazione automatica 10 / 100 Mb/s
Codec audio	VIA VT1708S	Uscita audio 5.1 canali Supporto audio High-Definition (HD)
Alloggi	Alloggio PCI x1 Alloggio PCI Express Gen2 x16 x1	
Connettori su scheda	Connettore SATA x2 Connettore pannello frontale x1 Connettore audio frontale x1 Collettore ventolina CPU x1 Collettore ventolina sistema x1	Ciascun connettore supporta 1 unità SATA Supporta i servizi del pannello frontale Supporta la funzione audio pannello frontale Alimentazione ventolina CPU Alimentazione ventolina di sistema

<i>SPECIFICA</i>		
	Collettore cancellazione CMOS x1	
	Connettore USB x2	Ciascun connettore supporta 2 porte USB pannello frontale
	Connettore Porta stampante x1	Ciascun connettore supporta 1 Porta stampante
	Porta seriale x1	
	Connettore alimentazione (24 pin) x1	
	Connettore alimentazione (4 pin) x1	
I/O pannello posteriore	Tastiera PS/2 x1	
	Mouse PS/2 x1	
	Porta VGA x1	
	Porta LAN x1	
	Porta USB x4	
	Connettore audio x3	
Dimensioni scheda	170 mm (larghezza) x 220 mm (altezza)	
Sistemi operativi supportati	Windows XP / Vista / 7	Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

Especificación		
CPU	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Bit de deshabilitación de ejecución
FSB	VIA V4 BUS 800MHz	
Conjunto de chips	VX900	
Gráficos	Chrome9 HD	Memoria máxima de vídeo compartida de 512MB
Súper E/S	ITE 8728	Interfaz de cuenta Low Pin Iniciativas de control de entorno Monitor hardware Controlador de velocidad de ventilador
Memoria principal	Ranuras DIMM DDR3 x 2	Cada DIMM admite DDR de 512MB/1GB/2GB/4GB Capacidad máxima de memoria de 8GB Admite DDR3 de 800 / 1066 Módulo de memoria DDR3 de canal Sencillo No admite DIMM registrados o DIMM compatibles con ECC
SATA	Controlador ATA Serie Integrado	Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.
Red Local	Realtek RTL8103EL	Negociación de 10 / 100 Mb/s
Códecs de sonido	VIA VT1708S	Salida de sonido de 5.1 canales Soporte de sonido Alta Definición
Ranuras	Ranura PCI X1 Ranura PCI Express Gen2 x16 X1	
Conectores en placa	Conector SATA X2 Conector de panel frontal X1 Conector de sonido frontal X1 Cabecera de ventilador de CPU X1 Cabecera de ventilador de sistema X1	Cada conector soporta 1 dispositivos SATA Soporta instalaciones en el panel frontal Soporta funciones de sonido en el panel frontal Fuente de alimentación de ventilador de CPU Fuente de alimentación de ventilador de sistema

Viotech 3200+

Especificación			
	Cabecera de borrado de CMOS	X1	
	Conector USB	X2	Cada conector soporta 2 puertos USB frontales
	Conector Puerto de impresora	X1	Cada conector soporta 1 Puerto de impresora
	Puerto serie	X1	
	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Teclado PS/2	X1	
	Ratón PS/2	X1	
	Puerto VGA	X1	
	Puerto de red local	X1	
	Puerto USB	X4	
	Conector de sonido	X3	
Tamaño de la placa	170 mm. (A) X 220 mm. (H)		
Soporte de sistema operativo	Windows XP / Vista / 7		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.

PORTUGUESE

ESPECIFICAÇÕES		
CPU	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
Chipset	VX900	
Placa gráfica	Chrome9 HD	Memória de vídeo máxima partilhada: 512 MB
Especificação do Super I/O	ITE 8728	Interface LPC (Low Pin Count) Iniciativas para controlo do ambiente Monitorização do hardware Controlador da velocidade da ventoinha
Memória principal	Ranhuras DIMM DDR3 x2	Cada módulo DIMM suporta uma memória DDR3 de 512MB/1GB/2GB/4GB Capacidade máxima de memória: 8GB Suporta módulos DDR3 800 / 1066 Módulo de memória DDR3 de canal simples Os módulos DIMM registados e os DIMM ECC não são suportados
SATA	Controlador Serial ATA integrado	Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.
LAN	Realtek RTL8103EL	Auto negociação de 10 / 100 Mb/s
Codec de som	VIA VT1708S	Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio
Ranhuras	Ranhura PCI x1 Ranhura PCI Express Gen2 x16 x1	
Conectores na placa	Conector SATA x2 Conector do painel frontal x1 Conector de áudio frontal x1	Cada conector suporta 1 dispositivo SATA Para suporte de várias funções no painel frontal Suporta a função de áudio no painel frontal

<i>ESPECIFICAÇÕES</i>			
	Conector da ventoinha da CPU	x1	Alimentação da ventoinha da CPU
	Conector da ventoinha do sistema	x1	Alimentação da ventoinha do sistema
	Conector para limpeza do CMOS	x1	
	Conector USB	x2	Cada conector suporta 2 portas USB no painel frontal
	Conector da para impressora	x1	Cada conector suporta 1 Porta para impressora
	Porta série	x1	
	Conector de alimentação (24 pinos)	x1	
	Conector de alimentação (4 pinos)	x1	
Entradas/S aídas no painel traseiro	Teclado PS/2	x1	
	Rato PS/2	x1	
	Porta VGA	x1	
	Porta LAN	x1	
	Porta USB	x4	
	Tomada de audio	x3	
Tamanho da placa	170 mm (L) X 220 mm (A)		
Sistemas operativos suportados	Windows XP / Vista / 7		A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.

POLISH

SPEC		
Procesor	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
Chipset	VX900	
Grafika	Chrome9 HD	Maks. wielkość współdzielonej pamięci video wynosi 512MB
Pamięć główna	Gniazda DDR3 DIMM x 2	Każde gniazdo DIMM obsługuje moduły 512MB/1GB/2GB/4GB DDR3 Maks. wielkość pamięci 8GB Obsługa DDR3 800 / 1066 Moduł pamięci DDR3 z trybem pojedynczego kanału Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8728	Interfejs Low Pin Count Funkcje kontroli warunków pracy Monitor H/W Kontroler prędkości wentylatora
SATA	Zintegrowany kontroler Serial ATA	Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.
LAN	Realtek RTL8103EL	10 / 100 Mb/s z automatyczną negocjacją szybkości
Kodek dźwiękowy	VIA VT1708S	5.1 kanałowe wyjście audio Obsługa High-Definition Audio
Gniazda	Gniazdo PCI x1 Gniazdo PCI Express Gen2 x16 x1	
Złącza wbudowane	Złącze SATA x2 Złącze panela przedniego x1 Przednie złącze audio x1	Każde złącze obsługuje 1 urządzenie SATA Obsługa elementów panela przedniego Obsługa funkcji audio na panelu przednim

SPEC		
	Złącze główkowe wentylatora procesora x1	Zasilanie wentylatora procesora
	Złącze główkowe wentylatora systemowego x2	Zasilanie wentylatora systemowego
	Złącze główkowe kasowania CMOS x1	
	Złącze USB x2	Każde złącze obsługuje 2 porty USB na panelu przednim
	Złącze Port drukarki x1	Każde złącze obsługuje 1 Port drukarki
	Port szeregowy x1	
	Złącze zasilania (24 pinowe) x1	
	Złącze zasilania (4 pinowe) x1	
Back Panel I/O	Klawiatura PS/2 x1	
	Mysz PS/2 x1	
	Port VGA x1	
	Port LAN x1	
	Port USB x4	
	Gniazdo audio x3	
Wymiary płyty	170 mm (S) X 220 mm (W)	
Obsługa systemu operacyjne go	Windows XP / Vista / 7	Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.

RUSSIAN

СПЕЦ			
CPU (центральный процессор)	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit	
FSB	VIA V4 BUS 800МГц		
Набор микросхем	VX900		
Графика	Chrome9 HD	Максимальная совместно используемая видео память составляет 512 МБ	
Основная память	Слоты DDR3 DIMM x 2	Каждый модуль DIMM поддерживает 512МБ/1ГБ/2ГБ/4ГБ DDR3 Максимальная ёмкость памяти 8 ГБ Поддержка DDR3 800 / 1066 Модуль памяти с одноканальным режимом DDR3 Не поддерживает зарегистрированные модули DIMM and ECC DIMM	
Super I/O	ITE 8728	Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Регулятор скорости	
SATA	Встроенное последовательное устройство управления ATA	скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.	
Локальная сеть	Realtek RTL8103EL	Автоматическое согласование 10 / 100 Мб/с	
Звуковой кодек	VIA VT1708S	5.1канальный звуковой выход Звуковая поддержка High-Definition	
Слоты	Слот PCI	x1	
	Слот PCI Express Gen2 x16	x1	
Встроенный разъём	Разъём SATA	x2	Каждый разъём поддерживает 1 устройство SATA
	Разъём на лицевой панели	x1	Поддержка устройств на лицевой панели
	Входной звуковой разъём	x1	Поддержка звуковых функций на лицевой панели

СПЕЦ			
	Контактирующее приспособление вентилятора центрального процессора	x1	Источник питания для вентилятора центрального процессора
	Контактирующее приспособление вентилятора системы	x1	Источник питания для вентилятора системы
	Открытое контактирующее приспособление CMOS	x1	
	USB-разъём	x2	Каждый разъём поддерживает 2 USB-порта на лицевой панели
	Разъём Порт подключения принтера	x1	Каждый разъём поддерживает 1 Порт подключения принтера
	Последовательный порт	x1	
	Разъем питания (24 вывод)	x1	
	Разъем питания (4 вывод)	x1	
Задняя панель средств ввода-вывода	Клавиатура PS/2	x1	
	Мышь PS/2	x1	
	Порт VGA	x1	
	Порт LAN	x1	
	USB-порт	x4	
	Гнездо для подключения наушников	x3	
Размер панели	170 мм (Ш) X 220 мм (В)		
Поддержка OS	Windows XP / Vista / 7		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.

ARABIC

المواصفات		
NanoBGA2 VIA CPU On-board Execute Disable Bit	VIA C7-D 1.8G CPU	وحدة المعالجة المركزية
	ميجا هرتز VIA V4 BUS 800 تردد	النقل الأمامي الجانبي
	VX900	مجموعة الشرائح
ميجا بايت 512 أقصى سعة لذاكرة الفيديو المشتركة	Chrome9 HD	بطاقة الرسومات
ميجا بايت و 1/ 512 سعة DDR3 تدعم ذاكرة من نوع DIMM كل قحة و 2/ و 4 جيجا بايت سعة ذاكرة قصوى 8 جيجا بايت ميجا بايت 1066 / 800 سعة DDR3 تدعم الذاكرة من نوع أحادية القناة DDR3 وحدة ذاكرة ECC وتلك التي لا تتوافق مع DIMM لا تدعم رفق الذاكرة	2 عدد DDR3 DIMM قحة	الذاكرة الرئيسية
Low Pin Count Interface تدعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة مراقب في سرعة المروحة	ITE 8728	Super I/O
نقل البيانات بسرعات تصل إلى 3 جيجابت/ثانية. 2.0 الإصدار SATA مطابقة لمواصفات	متكامل Serial ATA مخكم	SATA
تفاوض تلقائي 100/10 ميجا بايت / ثانية	Realtek RTL8103EL	شبكة داخلية 100/10
قوات لخرج الصوت 5.1 تدعم تقنية الصوت عالي التعريف من	VIA VT1708S	كوديك الصوت
	1 عدد PCI 1 عدد PCI Express Gen2 x16	قحة PCI القحات قحة PCI Express Gen2 x16
2 عدد SATA يدعم كل منفذ واحد من أجهزة 1 عدد يدعم تجهيزات اللوحة الأمامية 1 عدد يدعم وظيفة الصوت باللوحة الأمامية	SATA منفذ منفذ اللوحة الأمامية منفذ الصوت الأمامي	المنفذ على سطح اللوحة منفذ الصوت الأمامي

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المواصفات		
وصلة مروحة وحدة المعالجة المركزية	عدد 1	توصيل الطاقة لمروحة وحدة المعالجة مع وظيفة
وصلة مروحة النظام	عدد 1	توصيل الطاقة لمروحة النظام
وصلة مسح CMOS	عدد 1	
منفذ USB	عدد 2	بالوحة الامامية USB يدعم كل منفذ قطني
منفذ طابعة	عدد 1	
منفذ تسلسلي	عدد 1	
منفذ توصيل الطاقة (24 دبوس)	عدد 1	
منفذ توصيل الطاقة (4 دبوس)	عدد 1	
لوحة مفاتيح PS/2	عدد 1	
مؤس PS/2	عدد 1	
منفذ VGA	عدد 1	منفذ دخل/خرج
منفذ شبكة اتصال محلية	عدد 1	اللوحة الخلفية
منافذ USB	عدد 4	
مقيس صوت	عدد 3	
حجم اللوحة	170 مم (عرض) X 220 مم (ارتفاع)	
دعم أنظمة التشغيل	Windows XP / Vista / 7	
بخطها في اضافة او ازالة الدعم لأي نظام تشغيل باخطار أو بدون BioStar حفظ لخطار .		

JAPANESE

仕様		
CPU	VIA C7-D 1.8G CPU	NanoBGA2 VIA CPU On-board Execute Disable Bit
FSB	VIA V4 BUS 800MHz	
チップセット	VX900	
グラフィックス	Chrome9 HD	最大の共有ビデオメモリは512MBです
メインメモリ	DDR3 DIMMスロット x 2	各DIMMは 512MB/1GB/2GB/4GB DDR3をサポート 最大メモリ容量8GB DDR3 800 / 1066 をサポート シングル チャンネルモードDDR3 メモリモジュール 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8728	低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/W モニター ファン速度コントローラ/ モニター
SATA	統合シリアルATA コントローラ	最高3 Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。
LAN	Realtek RTL8103EL	10 / 100 Mb/秒のオートネゴシエーション
サウンド Codec	VIA VT1708S	5.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート
スロット	PCIスロット x1 PCI Express Gen2 x16スロット x1	
オンボードコネクタ	SATAコネクタ x2 フロントパネルコネクタ x1 フロントオーディオコネクタ x1 CPUファンヘッダ x1	各コネクタは1つのSATAデバイスをサポートします フロントパネル機能をサポートします フロントパネルオーディオ機能をサポートします CPUファン電源装置

Viotech 3200+

仕様			
	システムファンヘッダ	x1	システムファン電源装置
	CMOSクリアヘッダ	x1	
	USBコネクタ	x2	各コネクタは2つのフロントパネルUSBポートをサポートします
	プリンタポートコネクタ	x1	各コネクタは1つのプリンタポートをサポートします
	シリアルポート	x1	
	電源コネクタ(24ピン)	x1	
	電源コネクタ(4ピン)	x1	
背面パネル I/O	PS/2キーボード	x1	
	PS/2マウス	x1	
	VGAポート	x1	
	LANポート	x1	
	USBポート	x4	
	オーディオジャック	x3	
ボードサイズ	170 mm (幅) X 220 mm (高さ)		
OSサポート	Windows XP / Vista / 7		Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。

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